

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number  
**WO 2005/074396 A2**

(51) International Patent Classification: Not classified

(21) International Application Number:  
PCT/KR2005/000302

(22) International Filing Date: 2 February 2005 (02.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10-2004-0007641 5 February 2004 (05.02.2004) KR

(71) Applicant (for all designated States except US): PUNG  
KUK EDM WIRE MANUFACTURING CO., LTD  
[KR/KR]; 404-8, Nojang-Ri, Jundong-Myun, Yungi-Gun,  
Chungchungnam-Do 339-841 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LEE, Jong-Cho  
[KR/KR]; 312-6, Sukso-Dong, Manan-Gu, Anyang-Si,  
Gyunggi-Do 430-040 (KR).

(74) Agent: KI-RYUNG, Kim; King Road Ptlf, Suite 201,  
Seo-Joh Bldg., 103-15, Garwol-Dong, Yongsan-Gu, Seoul  
110-602 (KR).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,  
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,  
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,  
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: ELECTRODE WIRE WITH MULTI-COATED LAYERS FOR ELECTRICAL DISCHARGE MACHINING AND  
METHOD OF MANUFACTURING THE SAME

(57) Abstract: An electrode wire with multi-coated layers for electrical discharge machining (EDM) is capable of fast and precisely  
machining a work piece for a desired shape without changing the electrode wire, and a method of manufacturing the electrode wire  
is obtained by performing the steps of manufacturing a core wire, coating the core wire with zinc, drying the coated core wire,  
diffusion-heat treating of the coated core wire, drawing a product from the coated core wire, and stabilization treating of the coated  
core wire in order.

WO 2005/074396 A2